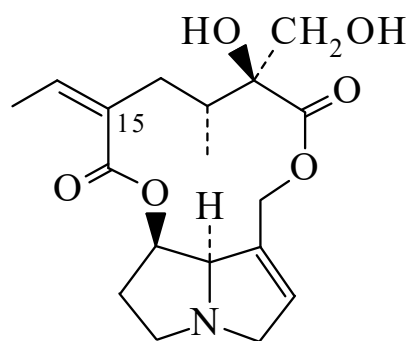




>>Entry Name: Retrorsine

Synonym(s): 12,18-Dihydroxysenecionan-11,15-dione, 9Cl. β -Longilobine



CAS Registry Number: 480-54-6

Molecular Formula: $C_{18}H_{25}NO_6$

Molecular Weight: 351.399

Accurate Mass: 351.168189

Percentage Composition: C 61.53%; H 7.17%; N 3.99%; O 27.32%

Biological Source: Alkaloid from *Senecio* spp, *Crotalaria* spp. and *Erechtites quadridentata* (Compositae, Leguminosae)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 217° (207-208°)

Optical Rotation: $[\alpha]_D^{20}$ -62.4 (c. 1.0 in $CHCl_3$). $[\alpha]_D$ -17.6 (c. 1.99 in EtOH)

Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. H_2O

UV: [neutral] λ_{max} 217 (ϵ 7100) (MeOH) (Berdy)

Hazard & Toxicity: Hepatotoxin, causes liver and kidney neoplasms. Highly toxic

Aldrich: 31814-0

Sigma: R0382

>>Derivative: Nitrate

Physical Description: Prisms (EtOH/Et₂O)

Melting Point: Mp 145°

>>Derivative: Methiodide

Physical Description: Prisms (MeOH)

Melting Point: Mp 266° (260°)

>>Derivative: *N*-Oxide

Synonym(s): Isatidine. Retrorsine *N*-oxide

CAS Registry Number: 15503-86-3

Molecular Formula: $C_{18}H_{25}NO_7$

Molecular Weight: 367.398

Accurate Mass: 367.163104

Percentage Composition: C 58.85%; H 6.86%; N 3.81%; O 30.48%

Biological Source: Alkaloid from *Senecio* spp., *Erechtites quadridentata* and *Werneria decora*

Melting Point: Mp 145°

Optical Rotation: $[\alpha]_D$ -8.2 (H_2O)

Sigma: R0507

>>Derivative: 15*E*-Isomer

Synonym(s): Usaramine. Usuramine. Mucronatine

CAS Registry Number: 15503-87-4

Molecular Formula: $C_{18}H_{25}NO_6$

Molecular Weight: 351.399

Accurate Mass: 351.168189

Percentage Composition: C 61.53%; H 7.17%; N 3.99%; O 27.32%

Biological Source: Alkaloid from *Crotalaria brevifolia*, *Crotalaria incana*, *Crotalaria mucronata* and *Crotalaria usaramoensis* (Leguminosae)

Melting Point: Mp 182.5-183.5°